E-Series 3-Way 0° Power Divider 5 - 200 MHz



MAPD-008109-C30040

Rev. V5

Features

- 75 Ω
- Surface Mount Technology
- RoHS* Compliant Version of ESSM-3-1-75

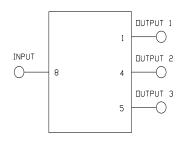
Applications

• CATV

Description

The MAPD-008109-C30040 is a 3 Way 0° power divider in a surface mount package. Ideally suited for high volume CATV applications.

Schematic



Pin Configuration

Pin #	Function	Pin #	Function
1	Output Port 1	5	Output Port 3
2,3,6,7	Ground	8	Input
4	Output Port 2		

Electrical Specifications: Freq. = 5 - 200 MHz, $T_A = 25^{\circ}C$, $Z_0 = 75 \Omega$

Parameter	Frequency	Units	Min.	Тур.	Max.
Insertion Loss	_	dB	_	0.28	0.5
Isolation	5 - 50 MHz 50 - 60 MHz 60 -125 MHz 125 - 200 MHz	dB	30 33 28 24	37 40 36 28	_
Amplitude Unbalance		dB	—	—	±0.1
Phase Unbalance		0	—	_	±1
Input Return Loss		dB	28	34	_
Output Return Loss	_	dB	20	25	

Ordering Information

Part Number	Package		
MAPD-008109-C30040	500 piece reel		
MAPD-008109-C300TB	Customer Test Board		

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum		
RF Power	1 W		
Internal Load Dissipation	0.125 W		
Pin Temp (10 sec.)	+260°C		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to +100°C		

5. Exceeding any one or combination of these limits may cause permanent damage to this device.

MACOM does not recommend sustained operation near these survivability limits.

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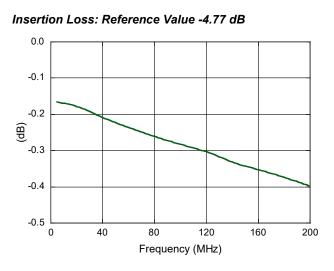
For further information and support please visit: <u>https://www.macom.com/support</u>

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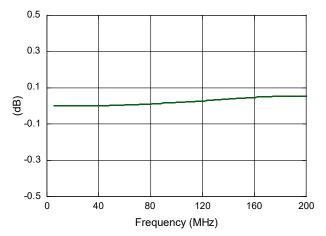
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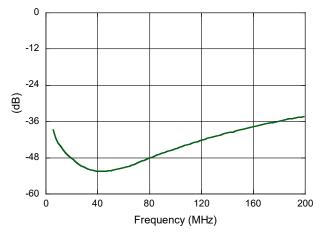


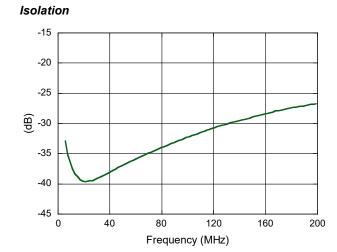
Typical Performance Curves $T_A = 25^{\circ}C$, $Z_0 = 75 \Omega$

Amplitude Unbalance

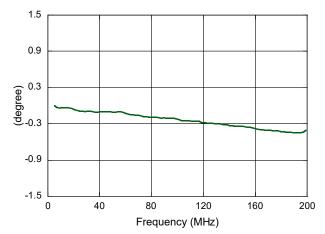


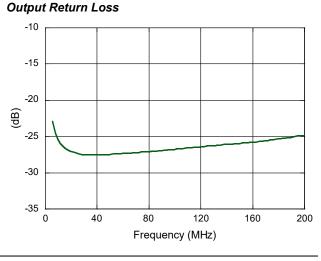






Phase Unbalance





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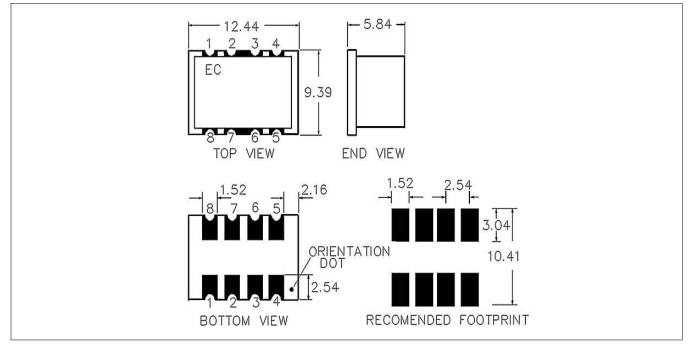
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Case Style: SM-4



Dimensions in inches [mm]. Tolerance where not specified: .xx \pm .02, .xxx \pm .010

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MAPD-008109-C30040 Rev. V5

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